Project Documentation Checklist

Route _	Project No.	City/County
Description		Engineer
	Check A	Appropriate Items
REFERENCE DATA		HYDROLOGY (Cont'd.)
	USGS – Quad., Scale, Date USGS – Other Local Zoning Maps Flood Hazard Delineation (Quad.) for 100 Yr. Flood Plain Delineation (HUD) Local Land Use Soils Maps Geologic Maps Aerial Photos – Scale, Date 8 By External Agencies:	High Water Elevations: INDOT Survey External Sources Personal Reconnaissance Flood History: External Sources Personal Reconnaissance Maintenance Records Photographs IDNR Historic Flood Profiles
	FEMA Flood Insurance Studies SCS Watershed Studies USGS Gages & Studies Interim Flood Plain Studies Water Resource Data Regional Planning Data Forestry Service Utility Company Plans	HYDRAULIC DESIGN Calibration of High Water Data: Discharge and Frequency of H.W. el. Influences Responsible for H.W. el. Analyze Hydraulic Performance of Existing Facility for 100 Yr. Analyze Hydraulic Performance of Proposed Facility
	s By Internal Sources: Hydraulics Section Records Flood Records (High Water, Newspaper)	Design Appurtenances: Dissipators Riprap Erosion and Sediment Control
HYDROLOGY		Technical Aids:
	ical Resources: Part IV, <i>Indiana Design Manual</i> INDOT Directives Technical Library	Indiana Design Manual, Part IV INDOT and FHWA Directives Technical Library
Discha	arge Caluculations: Drainage Areas Gaging Data – Regional Analysis Regression Equations (if no other method available) Area-Discharge Coordinated Curves Log-Pearson Type III Gage Rating (B 17B) Computer Programs: HYDRO, SCS (TR-20), HEC-1	Computer Programs: FESWMS-2DH HEC-RAS HEC-2 HYDRAIN HY8 WSPRO HYDROLOGIC-HYDRAULIC REPORTS

Data Reports:
 Environmental Reports
 Reconnaissance Report
 Hydraulic Recommendations from Engineer's
 Report INDOT Data